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APPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/940,885 08/29/2001		08/29/2001	Masahiro Kawasaki	500.45062X00	5638	
20457	7590	03/24/2005		EXAMINER		
ANTONEL	LI, TERI	RY, STOUT & K	ERDEN	ERDEM, FAZLI		
1300 NORT	H SEVEN	TEENTH STREET	[
SUITE 1800	1		ART UNIT	PAPER NUMBER		
ARLINGTON, VA 22209-3873				2826		

DATE MAILED: 03/24/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

· · · · · · · · · · · · · · · · · · ·	Application No.	Applicant(s)				
	09/940,885	KAWASAKI ET AL.				
Office Action Summary	Examiner	Art Unit				
	Fazli Erdem	2826				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on 21 Ju	■ Responsive to communication(s) filed on 21 June 2004.					
2a) This action is FINAL . 2b) ☑ This	action is non-final.					
• • • • • • • • • • • • • • • • • • • •	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) ☐ Claim(s) 2-5,9 and 15-24 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) ☐ Claim(s) 2-5,9 is/are allowed. 6) ☐ Claim(s) 15,20-22,24 and 25 is/are rejected. 7) ☐ Claim(s) 16-19 and 23 is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9) The specification is objected to by the Examiner.						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date						
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date		atent Application (PTO-152)				

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DETAILED ACTION

Allowable Subject Matter

- 2. Claims 2-5 and 9 allowed.
- 3. Claims 16 –19 and 23 objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claim 15, 20-22, 24, 25 rejected under 35 U.S.C. 103(a) as being unpatentable over Aoki et al. (4,760,389) in view of JP 4-299571 further in view of JP 6-120505

Regarding Claim 15, 20-22, 24 and 25, Aoki et al. disclose a transmitting type display device where in Fig. 2 and Claim 1, it's disclosed a thin film transistor device with source/drain regions/electrode, gate electrode, amorphous semiconductor layer and protective/passivation layer. Aoki et al. fail to disclose the required fixed charges prevention structure between the semiconductor layer and protective/passivation layer and the required porous semiconductor layer between the semiconductor layer and the passivation film. However, JP 4-299571 discloses an amorphous silicon thin film transistor for color liquid crystal display where the required fixed charges prevention configuration between the protective/passivation layer and the

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semiconductor layer. Furthermore, JP 6-120505 discloses an active matrix operation TFT structure with amorphous silicon in at least part of interface between island shaped semiconductor layer and the passivation layer.

It would have been obvious to one of having ordinary skill in the art at the time the invention was made to include the required fixed charges prevention structure and the porous semiconductor layer in the required configuration in Aoki et al. as taught by JP 4-299571 and JP 6-120505 respectively, in order to have a liquid crystal display device with better reliability.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Fazli Erdem whose telephone number is (571) 272-1914. The examiner can normally be reached on M - F 8:00 - 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nathan Flynn can be reached on (571) 272-1915. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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March 20, 2005

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